MPI Ignition System Controllers utilize the latest microprocessor-based designs to provide improved programming and diagnostics for today’s industrial gas engines. Operators of MPI controllers have more information to be used locally or remotely, giving them "full authority" to fine tune their operations for enhanced efficiency.

**Features:**
- True Primary and Secondary Diagnostics
- Five Timing Reference Options including Camless Operation
- Two field-adjustable timing schedules
- Highly accurate and stable timing (± 0.25°)
- 16-bit and 32-bit microprocessor controllers
- Field-programmable from front panels
- Run-time diagnostics and prognostics
- 4-line window display (local or remote)
- Remote PLC engine management system or cellular communication
- Two analog inputs for remote timing control

**Benefits:**
- Increased spark life
- Equalizes cylinder output
- Less RPM variations
- Reduces unscheduled downtime
- User friendly: no chips to change or remove
- No PC or handheld programmer required
- Easier operation
Specifications:

Power Requirements:
- MPI-16/8: 18-32 Volts (24 VDC nominal) 3.0 Amps max.
  Note: The input current is dependent on firing rate.
- MPI-32: 18-32 Volts, 6.0 Amps max.

Temperature: Operating Range: -20, +70°C

CSA Certified for Class I, Div 2, Groups B, C, D
- MPI-16: Fires 16 outputs, no simultaneous pairing.
- MPI-8: Fires 8 outputs, no simultaneous pairing.
- MPI-32: Fires 32 outputs, 2 outputs can fire simultaneously.

Energy Storage:
- MPI-16/8: 125 mJ max, per tank cap
- MPI-32: 180 mJ max, per tank cap

Output Electrical Specifications:
- MPI-8: Single tank capacitor
- MPI-16: Dual, alternately fired tank capacitors
- MPI-32: Quad, alternately fired pairs of tank capacitors

Ignition Outputs are High-side firing referenced to the “T” pin on the output harness.
  Note: These outputs are not ground referenced unless the “T” lead is grounded.
  Recommend careful adherence to installation instructions.

Maximum Output Current Pulse Rating: 40 Amps
  Note: Current pulse amplitude is dependent on the coils in use and the tank cap voltage.

- IT-230 Series coils: 7 Amp pulse @ 230Volts
- IT-150 Series coils: 35 Amps @ 150 Volts
- IT-250 series coils: 20 Amps @ 250 Volts

4/20 mA Inputs:
- 4/20mA A: This input retards timing (if programmed) when schedule A is active.
- 4/20mA B: This input retards the timing (if programmed) when schedule B is active.

Communications:
- MPI-8/16: An auxiliary comm port is available, RS-485 interface, Modbus protocol
  Note: This port has a user programmable slave ID, runs at 9600 baud.
  All parameters available and can be modified in parallel with main front panel display.

Note: MPI Controllers have multiple inputs/outputs for all operating parameters.
Please consult the Operating Manual for each MPI unit.